Half-Life and Wait to Spray Times for Various Herbicides

Use these charts to determine the half-life and the time needed for application prior to rainfall for the major herbicides in use at TxDOT.

Monsanto Roundup Pro		
with soil Half-life of herbicide in water @ Indefinite, if solution is mixed in a water. Very short life if water is h		
105° or above water. Very short life if water is h		
Annual not to exceed rates 10.6 qt./acre		
Visual effects of wilting after application Annuals: 2-3 days, perennials: 7 d	lays or more	
Wait time required prior to rainfall 1-2 hours		
Formulation Glyphosate with surfactant, water	solubleliquid	
Monsanto Outrider		
Half-life of herbicide incontact with soil 28 days		
Half-life of herbicide in water @ 16 days if pH is at 7. 105° or above		
Annual not to exceed rates 1.33 oz./acre		
Visual effects of wilting after application 3-4 weeks		
Wait time required prior to rainfall 1-2 hours		
Formulation Sulfosulfuron dispersible granules	3	
Approved Aquatic Herbicide		
Half-life of herbicide in contact with soil O Days		
Half-life of herbicide in water @ Indefinite, if solution is mixed in a water. Very short life if water is h dirty.		
Annual not to exceed rates N/A		
Visual effects of wilting after application Annual: 2-3 days, Perennial:. 7 da	ys or more	
Wait time required prior to rainfall 6 hours		
Formulation Glyphosate without surfactant, was liquid	iter soluble	
Dupont Oust XP		
Half-life of herbicide in contact with soil 28days		
Half-life of herbicide in water @ 6 days if pH is at 7. More days if pH is lower.	pH is higher and	
Annual not to exceed rates 8 oz./acre		

Visual effects of wilting after application	2-3 weeks	
Wait time required prior to	1-2 hours	
rainfall	1 - 10 020	
Formulation	Sulfometuron Methyl, dispersible granules	
Dupont Escort XP		
Half-life of herbicide in contact	28 days	
with soil	20 days	
Half-life of herbicide in water @	12-15 days if pH is at 7.	
105° or above	More days if pH is higher and fewer days if pH is	
	lower.	
Annual not to exceed rates	4 oz./acre	
Visual effects of wilting after application	2-3 weeks	
Wait time required prior to rainfall	1-2 hours	
Formulation	Metsulfuron Methyl, dispersible granules	
Dow AgroSciences Transline		
Half-life of herbicide in contact	23 days	
with soil	25 days	
Half-life of herbicide in water @	30 days at pH range of 5-9 at 77°F. Would not	
105° or above	expect this to be significantly different at 105°F +	
Annual not to exceed rates	21 oz./acre	
Visual effects of wilting after application	1 hour	
Wait time required prior to rainfall	.5 hours	
Formulation	Clopyralid, liquid concentrate	
Dow AgroSciences Pathfinder II		
Half-life of herbicide in contact	28 days	
with soil	20 days	
Half-life of herbicide in water @	Does not mix with water	
105° or above		
Annual not to exceed rates	N/A	
Visual effects of wilting after application	2-3 days or more	
Wait time required prior to rainfall	.5 hours	
Formulation	Triclopyr, ready to use liquid	
D	Agus Coionass Vista	
Half-life of herbicide in contact	AgroSciencesVista	
with soil	14 days	
Half-life of herbicide in water @	185 days @ 68° F would not expect this to be	
105° or above	significantly different at 105°F +	
Annual not to exceed rates	1 1/3 pt./acre	
Visual effects of wilting after application	1 day	
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Wait time required prior to rainfall	1 hour
Formulation	Fluroxypyr, liquid concentrate